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MINES DEPARTMENT.

MINES AND QUARRIES: GENERAL REPORT, WITH STATISTICS,

For 1920.

BY

H.M. CHIEF INSPECTOR OF MINES.

PART I.—DIVISIONAL STATISTICS.

Presented to Parliament pursuant to Statute.

Ordered, by the House of Commons, to be printed 24th May, 1921.

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NOTE.

Under the provisions of Sub-Section 2 (1) of the Mining Industry Act, 1920, all the powers of a Secretary of State under enactments relating to Mines and Quarries were transferred to the Board of Trade by Order in Council, dated the 6th December, 1920, and are now exercised under the provisions of Section 1 of the same Act through the Secretary for Mines.

These powers include, by virtue of Sub-Section 2 (3) of the Act, the collection, preparation, and publication of information and statistics relating to the mining industry.

The Annual General Report on Mines and Quarries now consists of three parts, issued separately, viz. :—

PART I. DIVISIONAL STATISTICS :—Statistics of the persons employed, output, and accidents at mines and quarries in the United Kingdom during the year, arranged according to the Inspection Divisions.

PART II. LABOUR :—General Report with Statistics relating to Persons Employed and Accidents at mines and quarries in the United Kingdom, and to the enforcement of the Mines and Quarries Acts.

PART III. OUTPUT :—General Report with Statistics relating to the Output and Value of the Minerals raised in the United Kingdom, the amount and value of the metals produced, and the exports and imports of minerals.

As regards the Colonial and Foreign Statistics, which were previously published as Part IV. of this Report, it has been arranged that the preparation and publication of these Colonial and Foreign Statistics shall be undertaken in future by the Imperial Mineral Resources Bureau.

MINES AND QUARRIES:
GENERAL REPORT, WITH STATISTICS,
For 1920.

PART 1.—DIVISIONAL STATISTICS.

MINES DEPARTMENT,
46, VICTORIA STREET, S.W.,
18th April, 1921.

SIR,

I HAVE the honour to submit Part I. of the Annual General Report on Mines and Quarries for the year ending 31st December, 1920. This part contains the Divisional Statistics for the year. The form in which these statistics appear is governed by administrative arrangements. The main classification of the mineral workings accordingly follows the Statutes regulating the working of mines and quarries:—

- (1) Mines under the Coal Mines Act, 1911, *i.e.*, all mines of coal, stratified ironstone, shale, and fireclay—including within the term “mine,” works above ground where the minerals are prepared for use or sale by screening, washing, &c.
- (2) Mines under the Metalliferous Mines Regulation Acts, *i.e.*, all mines other than those included under the first head.
- (3) Quarries under the Quarries Act, 1894, *i.e.*, all quarries more than 20 ft. deep.
- (4) Other mineral workings not regulated by any of the Acts mentioned above. Under this head are included the shallow iron-ore workings, brine wells, and certain other works, the owners of which make voluntary returns. It must be borne in mind, however, that in the absence of statutory powers it is impossible to collect returns from most of the shallow quarries.

More detailed reference will be made to these statistics in Parts II. and III. of the Report, which will follow in due course, but it is worthy of immediate note that the death-rate from accidents in and about mines under the Coal Mines Act was only 0.88 per thousand persons employed. This is a record.

I have the honour to be,

Sir,

Your obedient Servant,

THOMAS H. MOTTRAM,

H.M. Chief Inspector of Mines.

The Right Hon. W. C. Bridgeman, M.P.,
Secretary for Mines.

PERSONS EMPLOYED.

COAL MINES ACT.

TABLE No. 1.—**Persons Employed** in and about the MINES (including those on Sidings at the Pits and on Private Branch Railways and Tramways and in washing Coal), under the COAL MINES ACT in GREAT BRITAIN and IRELAND during the Year 1920.

Persons Employed.	Inspection Division.						Total.	
	1	2	3	4		5		
				York and North Midland	Lancashire, North Wales and Ireland.			
Under Ground.	Scotland	Northern	York and North Midland	Lancashire and North Wales.	Ireland.	South Wales.	Midland and Southern	
<i>Males.</i>								
Ages under 16	5,228	11,812	13,559	4,445	20	13,894	4,935	53,893
,, above 16	116,422	188,504	211,590	103,556	728	212,320	103,346	936,466
Total	121,650	200,316	225,149	108,001	748	226,214	108,281	990,359
<i>Above Ground.</i>								
<i>Males.</i>								
Ages under 14	51	480	2,600	638	—	307	601	4,677
,, 14 to 16	2,463	4,900	4,743	1,998	9	1,908	2,415	18,436
,, above 16	26,213	51,815	54,100	22,725	198	42,858	28,525	226,434
<i>Females.</i>								
Ages under 14	3	—	—	11	—	—	1	15
,, 14 to 16	287	7	6	131	—	2	10	443
,, above 16	3,826	725	260	2,453	1	227	368	7,860
Total	32,843	57,927	61,709	27,956	208	45,302	31,920	257,865
Total under and above ground.	154,493	258,243	286,858	135,957	956	271,516	140,201	1,248,224
Total in preceding year ..	147,039	246,201	275,058	129,357	886	257,613	135,159	1,191,313
Number of Mines at work..	518	469	475	296	13	614	466	2,851
Number in preceding year	512	439	483	299	16	576	518	2,843

PERSONS EMPLOYED.

METALLIFEROUS MINES REGULATION ACTS.

TABLE NO. 2.—**Persons Employed** in and about the MINES under the METALLIFEROUS MINES REGULATION ACTS in GREAT BRITAIN and IRELAND, with the ISLE OF MAN, during the Year 1920.

Persons Employed.	Inspection Division.						Total.
	1	2	3	4		5	
	Scotland	Northern	York and North Midland	Lancashire and North Wales.	Ireland.	South Wales.	Midland and Southern
Under Ground.							
<i>Males.</i>							
Ages 13 to 14	—	—	2	—	—	—	1 3
,, 14 to 16	4	16	10	—	1	1	59 91
,, above 16	502	5,817	471	1,770	317	267	3,053 12,187
Total	506	5,833	483	1,770	318	268	3,113 12,291
Above Ground.							
<i>Males.</i>							
Ages 12 to 14	1	7	6	—	1	—	— 15
,, 14 to 16	29	178	23	87	13	6	154 490
,, above 16	372	2,111	567	1,980	266	179	2,838 8,313
<i>Females.</i>							
Ages 12 to 14	—	—	—	—	—	—	—
,, 14 to 16	6	1	—	—	—	—	8 15
,, above 16	62	36	4	6	6	2	83 199
Total	470	2,333	600	2,073	286	187	3,083 9,032
Total under and above ground.	976	8,166	1,083	3,843	604	455	6,196 21,323
Total in preceding Year ..	920	8,446	988	3,196	597	450	7,064 21,661
Number of Mines at work..	22	129	52	92	28	17	158 498
Number in preceding Year	24	136	46	89	31	13	156 495

PERSONS EMPLOYED.

QUARRIES ACT.

TABLE No. 3.—**Persons Employed** in and about the QUARRIES (more than 20 ft. deep) of GREAT BRITAIN and IRELAND, with the ISLE OF MAN, during the Year 1920.

Persons Employed.	Inspection Division.						Total.		
	1	2	3	4	5	6			
	Scotland	Northern	York and North Midland	Lancashire, North Wales and Ireland.	South Wales.	Midland and Southern			
<i>Males.</i>									
Inside the Quarries.	Ages 12 to 14	—	—	6	—	1	2	18	27
	,, 14 to 16	79	77	70	81	14	39	341	701
	,, above 16	3,551	4,900	5,856	6,407	1,689	2,228	18,096	42,727
<i>Females.</i>									
	Ages 12 to 14	—	—	—	—	—	—	—	—
	,, 14 to 16	2	—	—	—	—	—	—	2
	,, above 16	37	4	29	1	—	1	15	87
	Total	3,669	4,981	5,961	6,489	1,704	2,270	18,470	43,544
<i>Males.</i>									
Outside the Quarries.	Ages 12 to 14	—	—	49	2	1	2	29	83
	,, 14 to 16	64	68	145	259	11	34	421	1,002
	,, above 16	1,716	1,366	4,078	5,256	590	837	9,022	22,865
<i>Females.</i>									
	Ages 12 to 14	—	—	—	—	—	—	—	—
	,, 14 to 16	—	1	1	—	—	—	3	5
	,, above 16	17	22	47	21	2	8	134	251
	Total	1,797	1,457	4,320	5,538	604	881	9,609	24,206
Total Inside and Outside ..									
	5,466	6,438	10,281	12,027	2,308	3,151	28,079	67,750	
Total in preceding Year ..									
	4,279	5,971	8,392	9,595	2,588	2,567	23,684	57,076	
Number of Quarries at work..									
	899	557	718	493	423	285	2,104	5,479	
Number in preceding Year ..									
	818	489	655	457	525	262	1,929	5,135	

OUTPUT OF MINERALS.

TABLE No. 4.—Summary of OUTPUT OF MINERALS from MINES, QUARRIES and BRINE WELLS.

Description of Mineral.	Mines.		Quarries.*	Total Output 1920.	Total 1919.
	Coal Mines Act.	Metal- liferous Mines Acts.			
Alum Shale ..	5,539	—	—	5,539	4,848
Arsenic ..	—	1,926	71	1,997	2,527
Arsenical Pyrites ..	—	1,178	—	1,178	75
Barium (Com- pounds)	8,765	51,512	3,873	64,150	60,087
Bauxite ..	—	11,020	—	11,020	9,221
Bog Ore ..	—	—	2,179	2,179	3,045
Chalk ..	—	983	3,746,182	3,747,165	2,629,406
Chert, Flint, &c.	—	3,240	81,063	84,303	50,082
Chromite of Iron ..	—	—	1,100	1,100	150
Clays† and Shale ..	2,210,067	99,989	8,720,362	11,030,418	7,765,965
Coal ..	229,503,435	—	28,646	229,532,081	229,779,517
Copper Ore and Copper Precipi- tate.	—	215	60	275	372
Fluor Spar ..	—	41,183	13,500	54,683	36,860
Gold Ore ..	—	1	—	1	—
Gravel and Sand ..	—	18,449	2,738,603	2,757,052	2,048,427
Gypsum ..	—	228,568	58,410	286,978	220,003
Igneous Rocks ..	471	17,307	5,602,913	5,620,691	4,387,703
Iron Ore ..	4,985,410	1,342,495	6,379,570	12,707,475	12,254,195
Iron Pyrites ..	6,264	395	—	6,659	7,336
Lead Ore ..	—	14,374	1,025	15,399	13,868
Lignite ..	—	150	—	150	—
Limestone (other than Chalk).	1,926	265,690	10,960,201	11,227,817	9,537,495
Manganese Ore ..	—	12,875	—	12,875	12,078
Natural Gas ..	—	—	c.ft. 95,000	c.ft. 95,000	c.ft. 90,000
Ochre, Umber, &c.	—	6,164	8,793	14,957	10,547
Oil Shale ..	2,829,515	—	13,067	2,842,582	2,763,875
Rock Salt ..	—	108,083	—	108,083	90,938
Salt from Brine ..	—	—	2,050,287	2,050,287	1,817,142
Sandstone ..	85,287	41,745	2,056,784	2,183,816	1,699,853
Slate ..	—	58,315	156,954	215,269	164,098
Soapstone ..	—	361	—	361	688
Sulphate of Strontia ..	—	—	4,183	4,183	1,872
Tin Ore (dressed) ..	—	4,149	709	4,858	5,156
Tungsten Ores ..	—	93	1	94	166
Uranium Ore ..	—	60	—	60	—
Zinc Ore ..	—	3,878	1,186	5,064	6,933
Total ..	239,636,679	2,334,398	42,629,722 c.ft. 95,000†	284,600,799 c.ft. 95,000†	275,384,528 c.ft. 90,000†

* Exclusive of the produce of most of the Quarries less than 20 ft. deep, but including the produce of all open workings for Iron Ore, Bog Ore, Ochre, Sulphate of Strontia, and Tin Ore, &c.

† Including china clay, china stone, and mica clay.

‡ Natural gas.

OUTPUT OF MINERALS.

COAL MINES ACT.

TABLE No. 5.—Output of Minerals from MINES under the COAL MINES ACT, in GREAT BRITAIN and IRELAND, during the Year 1920.

Description of Mineral.	Inspection Division.						Total in preceding Year.
	1	2	3	4	5	6	
	Scotland.	Northern.	York and North Midland.	Lancashire, North Wales and Ireland.	South Wales.	Midland and Southern.	
Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Barium (Compounds) ..	8,765	12,231 ^a	16,230	—	—	24,534	8,765
Clay and Shale, other than Fireclay and Oil Shale, ..	145,586	50,985	61,402,279	21,686,562	46,248,967	24,681,187	249,566
Coal* ..	31,523,941	43,852,538	339,006	147,173	109,049	470,187	229,503,435
Fireclay ..	547,951	352,674	—	—	—	—	1,966,040
Igneous Rocks ..	—	471	—	—	—	—	471
Iron Pyrites ..	—	765	564	537	63	4,335	6,264
Ironstone ..	—	3,714,446	37,021	—	10,368	944,192	4,985,410
Limestone ..	—	1,926	—	—	—	—	1,926
Ochre, Umber, &c. ..	—	—	—	—	—	—	—
Oil Shale ..	—	2,827,792	—	—	—	—	—
Sandstone (including "Ganister") ..	35,161	884	46,971	260	1,654	1,723	2,829,515
Total ..	35,361,740	47,981,528	61,838,072	21,850,762	107,961	46,370,101	26,126,515
Total in preceding Year	36,200,867	47,913,705	58,348,352	22,803,212	92,414	47,659,247	239,600,939
							—

^a Including 5,539 tons of Alum Shale.^{*} The quantity of Coal obtained from open quarries (pp. 12 and 13) was 28,646 tons, making the total output of Coal 229,532,081 tons.[†] The quantity of Ganister obtained was 84,992 tons.[‡] The quantity of Ganister obtained was 97,537 tons.

OUTPUT OF MINERALS.

METALLIFEROUS MINES REGULATION ACTS.

TABLE No. 6.—Output of Minerals from Mines under the METALLIFEROUS MINES REGULATION ACTS, in GREAT BRITAIN and IRELAND, with the ISLE OF MAN, during the Year 1920.

Description of Mineral.	Inspection Division.						Total in preceding Year.
	1	2	3	4	5	6	
Scotland.	Northern.	York and North Midland.	Lancashire, N. Wales and Ireland.	South Wales.	Midland and Southern.		
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Arsenic	2,450
Arsenical Pyrites	75
Barium (Compounds)	47,931
Bauxite	9,221
Chalk, Flint, &c.
Clay and Shale
Copper Ore and Copper Precipitate
Fluor Shar
Gold Ore
Gravel and Sand
Gypsum
Igneous Rocks	185,037
Iron Ore
Iron Pyrites
Lead Ore
Lignite
Limestone
Manganese Ore
Ochre, Umber, &c.
Rock Salt
Sandstone
Slate
Soapstone
Tin Ore (dressed)
Tungsten Ores
Uranium Ore
Zinc Ore
Total
Total in preceding Year

a Including 741 tons of Honselite.

b Including 374 tons of Calc Spar.

c Including 191 tons of Calc Spar.

d Including 10,366 tons of Ganister.

[OUTPUT.]

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OUTPUT OF MINERALS.

OUARRIES ACT.

TABLE No. 7.—**Output of Minerals** from QUARRIES (more than 20 ft. deep) in GREAT BRITAIN and IRELAND, with the ISLE OF MAN, during the Year 1920.

Description of Mineral.	Inspection Division.						Total in preceding Year.	
	1		2		3			
	Scotland.	Northern,	York and North Midland.	Lancashire and North Wales.	Lancashire, North Wales and Ireland.	Midland and Southern.		
Barium (Compounds)								
Chalk								
Chert, Flint, &c.								
Clays, other than China Clay, Mica Clay, and Oil Shale	267,531	354,770	1,481,246	1,008,506	145,169	3,298,116	2,449	
China Clay								
China Stone								
Chlorite								
Chlorite and Iron								
Chert								
Coral								
Coral and Sand								
Gypsum								
Granite Rocks								
Ironstone								
Lead Ore								
Limestone, other than Chalk								
Mica Clay								
Oil and Umber								
Oil Shale								
Sandstone, Quartzite, &c.								
Slate								
Slate Ore (dressed)								
Zincite								
Zincite Ore								
Total	2,371,859	4,471,986	8,432,756	3,554,988	913,336	1,962,399	18,114,558	
Total in preceding Year	1,909,572	3,775,986	6,878,608	2,696,336	890,743	1,531,137	31,136,124	

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OUTPUT OF MINERALS.

TABLE NO. 8.—**Output of Minerals** from certain WORKINGS not included under the PROVISIONS of the MINES REGULATION ACTS, or the QUARRIES ACT, during the Year 1920.

Description of Mineral.	Division in which Situated.						Total.	Total in preceding Year.
	1	2	3	4	5	6		
Scotland.	Northern.	York and North Midland.	Lancashire, North Wales and Ireland.	Lancashire and North Wales.	South Wales.	Midland and Southern.		
		Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Arsenic ..	..	..	..	..	..	..	71	77
Barium (Compounds) ..	..	..	..	..	..	..	1,338	2,116
Bog Ore..	..	..	..	..	..	..	638	2,179
Coal ..	..	..	..	..	..	..	..	3,045
Copper Precipitate ..	..	..	..	..	..	..	887	9,851
Fluor Spar ..	..	..	..	..	..	..	..	58
Gypsum..	..	..	..	..	..	..	..	4,135
Ironstone ..	..	..	..	..	..	..	..	1,245
Lead Ore ..	..	..	..	..	..	..	..	..
Natural Gas ..	..	..	..	..	..	..	..	..
Ochre and Umber ..	..	..	..	..	..	..	..	..
Salt from Brine ..	..	..	..	..	..	..	..	..
Sulphate of Strontia ..	..	..	..	..	..	..	..	..
Tin Ore (dressed), from streams, foreshores, &c.	..	..	..	..	..	..	..	..
Tungsten Ores ..	..	..	..	..	..	..	..	..
Zinc Ore ..	..	..	..	..	..	..	..	..
							40	146
							1	186
							1	369

The object of this table is to afford information concerning the output of certain metallic ores and a few other mineral products from workings not included either under the Mines Acts or the Quarries Act, in order to make the statistics as complete as possible. The figures given are based upon voluntary returns furnished by the courtesy of the owners. The table does not include any account of the large quantities of brick-earth, clay, gravel, sand, stone, &c., raised from workings less than 20 ft. deep. It is impossible to obtain complete statistics of these latter minerals in the absence of statutory powers.

* Including Output of Staffordshire from No. 6 Division and of Ireland.

† Including the figures for Lancashire, North Wales, &c., raised from workings for No. 4 Division.

[OUTPUT.]

DEATHS FROM ACCIDENTS.

COAL MINES ACT.

TABLE NO. 9.—Deaths caused by ACCIDENTS in and about the MINES of GREAT BRITAIN and IRELAND (including those on Private and Branch Railways and Tramways, and in Washing Coal), during the Year 1920.

No. of separate fatal accidents.	Place or Cause of Accident.	Inspection Division.						Total.
		1	2	3	4	5	6	
		Scotland.	North- ern. —	York and North Mid- land.	Lancashire, North Wales, and Ireland.	South Wales.	Mid- land and South- ern.	
16	Explosions of Fire-damp or Coal Dust	13	3	—	—	—	9	1 26
326	At the Working Face	45	65	76	33	—	80	38 337
119	On Roads while repairing or enlarging	13	13	22	26	—	36	15 125
77	On Roads while otherwise working or passing	15	14	17	8	—	21	5 80
2	In Shafts	1	1	—	—	—	—	— 2
524	Total	74	93	115	67	—	137	58 544
—	Falls of Ground.	—	—	—	—	—	—	—
326	Overwinding	—	—	—	—	—	—	—
119	Ropes or Chains breaking	—	—	—	—	—	—	—
6	Whilst descending or ascending by Machinery.	—	2	—	4	—	1	1 8
77	Falling into Shaft from Surface	1	—	1	—	—	1	1 4
2	Falling from part way down	1	5	—	4	—	1	2 13
1	Things falling into Shaft from Surface.	—	—	—	—	—	1	— 1
13	Things falling from part way down.	—	—	1	—	—	—	— 1
13	Miscellaneous	6	—	1	2	—	3	1 13
37	Total	8	7	3	10	—	7	5 40
—	Shaft Accidents.	—	—	—	—	—	—	—
22	By Explosives	8	6	2	1	—	2	3 22
2	Suffocation by Natural Gases	—	—	—	—	—	2	— 2
1	By Underground Fires	4	—	—	—	—	—	— 4
—	Irruption of Water	—	—	—	—	—	—	—
7	Haulage :—	—	1	—	1	—	5	— 7
—	(a) Ropes or Chains breaking	—	—	—	—	—	—	—
86	(b) Run over or crushed by Trams or Tubs*—	8	13	17	6	—	33	9 86
56	Mechanical Haulage	2	13	17	—	—	18	6 56
16	Horse Haulage	1	2	3	3	—	3	4 16
49	Hand Haulage	6	6	15	10	—	10	5 52
207	Runaway Trams or Tubs	17	32	52	19	—	64	24 210
20	Total (b)	7	4	1	4	—	2	2 20
3	(c) Other Haulage Accidents	1	—	—	1	—	1	— 3
11	Electricity	4	—	4	3	—	—	— 11
76	By Machinery	6	11	17	10	—	27	5 76
349	Total	47	56	76	39	—	103	34 355
928	Total Underground	142	159	194	116	—	256	98 965
16	On Surface.	By Machinery	5	1	3	1	—	3 16
2	Boiler Explosions	2	1	—	—	—	—	— 3
—	On Railways, Sidings, or Tramways :—	—	—	—	—	—	—	—
12	Whilst engaged in moving Waggons.	1	1	5	1	—	4	— 12
3	Whilst engaged in coupling or uncoupling Waggons.	—	—	—	—	—	3	— 3
17	Run over while passing along or across Railways or Tramways.	5	4	2	4	—	1	1 17
3	Crushed between Waggons and Structures.	—	2	—	—	—	1	— 3
19	In other ways	3	7	2	—	—	5	2 19
54	Total	9	14	9	5	—	14	3 54
6	Electricity	2	1	—	—	—	2	2 7
56	Miscellaneous	10	9	13	5	—	12	9 58
134	Total on Surface	28	26	25	11	—	31	17 138
1,060	Gross Total in 1920	170	185	219	127	—	287	115 1,103
1,089	Total in preceding Year	180	178	235	136	1	288	100 1,118

* Not including accidents coming under (a).

Decrease 15.

DEATHS FROM ACCIDENTS.

METALLIFEROUS MINES REGULATION ACTS.

TABLE NO. 10. Deaths caused by ACCIDENTS in and about the MINES of GREAT BRITAIN and IRELAND together with the ISLE of MAN, during the Year 1920.

No. of separate fatal accidents.	Place or Cause of Accident.	Inspection Division.						Total.
		1 Scotland.	2 North-ern.	3 York and North Mid-land.	4 Lancashire, North Wales and Ireland.	5 Lanca-shire and N. Wales.	6 South Wales.	
—	Explosions of Fire-damp ...	—	—	—	—	—	—	—
15	Falls of Ground ...	—	6	1	3	—	—	5 15
1	Overwinding ...	—	—	—	—	—	—	—
—	Ropes or Chains breaking ...	—	—	—	—	—	—	—
—	Whilst descending or ascending by Machinery	—	—	—	—	—	—	1 1
1	Falling into Shaft from Surface	—	—	—	—	—	—	—
—	Falling from part way down ...	—	1	—	—	—	—	—
—	Things falling into Shaft from Surface	—	—	—	—	—	—	—
—	Things falling from part way down	—	—	—	—	—	—	—
—	Miscellaneous ...	—	—	—	—	—	—	—
2	Total ...	—	1	—	—	—	—	1 2
2	Miscellaneous Underground.	—	—	—	1	—	—	4 5
—	By Explosives ...	—	—	—	1	—	—	—
—	Suffocation by Natural Gases ...	—	—	—	—	—	—	—
—	By Underground Fires ...	—	—	—	—	—	—	—
—	Irruptions of Water ...	—	—	—	—	—	—	—
—	Haulage:—	—	—	—	—	—	—	—
—	(a) Ropes or Chains breaking	—	—	—	—	—	—	—
—	(b) Run over or crushed by Trams or Tubs ^g	—	—	—	—	—	—	—
—	(c) Other Haulage Accidents	—	—	—	—	—	—	—
—	Electricity ...	—	—	—	—	—	—	—
3	By Machinery ...	—	—	—	1	—	—	2 3
—	Sundries ...	—	—	—	—	—	—	—
5	Total ...	—	—	—	2	—	—	6 8
22	Total Underground ...	—	7	1	5	—	—	12 25
2	On Surface.	—	—	—	—	—	—	—
—	By Machinery ...	1	1	—	—	—	—	2
—	Boiler Explosions ...	—	—	—	—	—	—	—
—	On Railways, Sidings, or Tramways	—	—	—	—	—	—	—
—	Electricity ...	—	—	—	—	—	—	—
—	Miscellaneous ...	—	—	—	—	—	—	—
2	Total on Surface ...	1	1	—	—	—	—	2
24	Gross Total in 1920 ...	1	8	1	5	—	—	12 27
31	Total in preceding Year ...	3	17	1	3	—	1	40† 65

* Not including accidents coming under (a).

Decrease 38.

† A disaster at the Levant Mine, Cornwall, on the 20th October, 1919, caused 31 deaths.

DEATHS FROM ACCIDENTS.

QUARRIES ACT.

TABLE No. 11.—Deaths caused by ACCIDENTS in and about the QUARRIES (more than 20 feet deep) of GREAT BRITAIN and IRELAND, together with the ISLE OF MAN, during the Year 1920.

No. of separate fatal accidents.	Place or Cause of Accident.	Inspection Division.						Total.
		1	2	3	4		5	
		Scotland.	North- ern.	York and North Mid- land.	Lancashire, North Wales and Ireland.	South Wales.	Mid- land and South- ern.	
6								
12	Falls of Ground.							
	From beyond the Person's own working place	2	—	2	—	1	—	3 8
	From the Person's own working place	—	2	3	3	—	1	3 12
18	Total	2	2	5	3	1	1	6 20
12								
	By Blasting.							
	While charging or tamping	1	1	—	—	—	—	—
	From Stones projected by Shots, when persons had not taken sufficient shelter	1	1	—	—	—	—	—
1	From Missfires	—	—	—	—	—	—	—
3	Miscellaneous	—	—	—	—	—	—	—
8	Total	3	3	—	1	—	1	— 8
1								
1	During Descent or Ascent.							
	Falling from Paths, Steps, or Ladders	—	—	—	—	—	—	—
	When descending or ascending by machinery	—	—	—	—	—	—	—
	Miscellaneous	—	—	—	—	—	—	—
	Total	—	—	—	—	—	—	—
1								
1	Inside the Quarries (i.e., inside the actual Pits, Holes, or Excavations).							
	Ropes or Chains breaking	—	—	—	—	—	—	—
	Machinery	—	—	—	—	—	—	1 1
	Boiler Explosions	—	—	—	—	—	—	—
3	On Inclined and Engine Planes	—	—	—	—	—	—	—
5	On Railways, Sidings, or Tramways	—	—	—	1	—	—	2 3
8	Falling from Ledges	1	1	1	1	—	1	— 5
	Electricity	—	—	1	3	—	2	1 8
	Sundries	—	1	—	—	—	—	—
17	Total	2	1	2	5	—	3	4 17
43	Total Inside Quarries	7	6	7	9	1	5	10 45
2								
1	Outside the Quarries.							
	Machinery	—	—	2	—	—	—	—
1	Boiler Explosions	1	—	—	—	—	—	2 1
1	On Inclined and Engine Planes	—	—	1	—	—	—	— 1
2	On Railways, Sidings, or Tramways	—	—	—	—	—	—	2 2
3	Electricity	—	—	—	—	—	—	— 3
9	Miscellaneous	—	—	1	—	—	2	— 9
	Total outside Quarries	1	—	4	—	—	2	2 9
52	Gross Total in 1920	8	6	11	9	1	7	12 54
46	Total in preceding Year	3	10	3	6	—	4	20 46

Increase 8.

PERSONS INJURED.

COAL MINES ACT.

TABLE NO. 12.—Number of Persons Injured both by Non-FATAL ACCIDENTS and by ACCIDENTS which proved fatal to others, in and about the MINES of GREAT BRITAIN and IRELAND (including those on Private Branch Railways and Tramways, and in Washing and Coking Coal), during the Year 1920.

Place or Cause of Accident.	Persons Injured by Non-Fatal Accidents disabling for more than 7 Days.										Total Persons Injured by Accidents Reported to Inspectors.*
	Inspection Division.						Total.				
	1	2	3	4	5	6					
	Scotland.	North- ern.	York and North Mid- land.	Lancashire, North Wales and Ireland.	South Wales.	Mid- land and South- ern.					
Explosions of Fire-damp or Coal Dust.	59	6	7	3	—	29	1	105	128		
At the Working Face ..	3,060	5,875	8,577	3,575	23	7,975	2,998	32,083	1,124		
On Roads while repairing or enlarging.	392	450	1,210	691	2	1,980	500	5,225	278		
On Roads while otherwise working or passing.	307	582	965	637	—	1,086	425	4,002	206		
In Shafts	8	4	7	1	—	27	1	48	2		
Total	3,767	6,911	10,759	4,904	25	11,068	3,924	41,358	1,610		
Falls of Ground.											
Overwinding	3	—	29	—	—	16	—	48	63		
Ropes or Chains breaking	—	1	1	14	—	—	—	16	—		
Whilst descending or ascending by Machinery.	13	3	—	10	—	9	2	37	9		
Falling down Shaft	3	3	—	—	—	2	1	9	8		
Things falling down Shaft	11	14	18	17	—	21	7	88	13		
Miscellaneous	23	85	56	43	—	46	35	288	22		
Total	53	106	104	84	—	94	45	436	115		
Shaft Accidents.											
By Explosives	73	76	15	10	—	42	18	234	273		
Suffocation by Natural Gases	4	2	2	—	—	—	1	9	5		
By Underground Fires	—	—	—	—	—	—	—	—	—		
Irruptions of Water	1	—	—	—	—	4	—	5	—		
Haulage:—											
(a) Ropes or Chains breaking	27	7	29	18	—	10	10	101	17		
(b) Run over or crushed by Trams or Tubs—											
Mechanical Haulage	271	597	814	372	—	278	392	2,724	260		
Horse Haulage	145	2,650	1,556	91	—	1,564	687	6,693	285		
Hand Haulage	800	659	1,204	989	11	346	531	4,540	194		
Runaway Trams or Tubs.	98	106	88	153	—	59	45	549	96		
<i>Total (b)</i>	<i>1,314</i>	<i>4,012</i>	<i>3,662</i>	<i>1,605</i>	<i>11</i>	<i>2,247</i>	<i>1,655</i>	<i>14,506</i>	<i>835</i>		
(c) Other Haulage Accidents.	1,564	2,208	4,320	2,701	6	2,368	1,163	14,330	215		
Electricity	5	3	2	3	—	2	—	15	17		
By Machinery	84	135	126	89	—	107	87	628	80		
Sundries	3,450	5,275	10,767	3,791	6	7,556	4,108	34,953	410		
Total	6,522	11,718	18,923	8,217	23	12,336	7,042	64,781	1,852		
Miscellaneous Underground.											
Total Underground	10,401	18,741	29,793	13,208	48	23,527	11,012	106,730	3,705		
On Surface.											
By Machinery	79	157	160	75	1	139	59	670	97		
Boiler Explosions	2	—	1	—	—	1	—	4	8		
On Railways, Sidings, or Tramways:—											
While engaged in moving Waggons.	126	175	173	35	1	257	129	896	80		
While engaged in coupling and uncoupling Waggons.	14	41	33	2	—	28	18	136	9		
Run over while passing along or across Railways or Tramways.	8	25	15	2	1	37	11	99	13		
Crushed between Waggons and Structures.	106	99	142	58	—	97	31	533	10		
In other ways	215	189	378	105	—	249	146	1,282	52		
<i>Total</i>	<i>469</i>	<i>529</i>	<i>741</i>	<i>202</i>	<i>2</i>	<i>668</i>	<i>335</i>	<i>2,946</i>	<i>164</i>		
Electricity	1	4	4	1	—	5	—	15	24		
Miscellaneous	664	1,219	1,740	757	7	1,621	929	6,937	289		
Total on Surface	1,215	1,909	2,646	1,035	10	2,434	1,323	10,572	582		
Gross Total in 1920	11,616	20,650	32,439	14,243	58	25,961	12,335	117,302	4,287		
Total in preceding Year ..	11,075	22,812	30,191	15,109	38	25,297	12,900	117,422	4,262		

* Includes (a) accidents causing fracture of head or limb, or dislocation of limb, or any other serious personal injury; (b) accidents caused by explosion of gas or dust, or any explosive, or by electricity, or by overwinding, and causing any personal injury whatever.

PERSONS INJURED.

METALLIFEROUS MINES REGULATION ACTS.

TABLE No. 13.—**Number of Persons Injured** both by NON-FATAL ACCIDENTS and by ACCIDENTS which proved FATAL to others in and about the MINES of GREAT BRITAIN and IRELAND, together with the ISLE OF MAN, during the Year 1920.

Place or Cause of Accident.	Persons Injured by Non-Fatal Accidents disabling for more than 7 days.						Total.	Total Persons Injured by Acci- dents Reported to Inspectors.*		
	Inspection Division.									
	1	2	3	4	5	6				
Scot- land.	North- ern.	York and North Mid- land.	Lancashire, North Wales and Ireland.	South Wales.	Mid- land and South- ern.					
			Lanca- shire and N. Wales.	Ire- land.						
Explosions of Fire-damp	—	2	—	—	—	—	2	2		
Falls of Ground	8	105	2	6	—	—	83	204		
Shaft Accidents.										
Overwinding	—	—	—	—	—	—	—	—		
Ropes or Chains breaking	—	—	—	—	—	—	—	—		
Whilst descending or ascending by Machinery	—	4	—	—	—	—	4	3		
Falling down Shaft	1	1	—	—	—	—	2	4		
Things falling down Shaft	—	1	—	1	—	—	14	16		
Miscellaneous	—	6	1	—	—	—	9	16		
Total	1	12	1	—	1	—	25	40		
Miscellaneous Underground.										
By Explosives	2	8	—	3	1	1	5	20		
Suffocation by Natural Gases	—	—	—	—	—	—	—	—		
By Underground Fires	—	—	—	—	—	—	—	—		
Irruptions of Water	—	—	—	—	—	—	—	—		
Haulage :—										
Ropes or Chains breaking	—	—	—	—	—	—	—	—		
Run over or crushed by Trams or Tubs	—	34	2	5	3	—	21	65		
Other Haulage Accidents	5	66	1	6	—	—	31	109		
Electricity	—	—	—	—	—	—	—	—		
By Machinery	—	3	—	2	—	—	8	13		
Sundries	14	156	9	57	2	6	179	423		
Total	21	267	12	73	6	7	244	630		
Total Underground	30	386	15	79	7	7	352	876		
On Surface.										
By Machinery	1	9	—	10	—	—	9	29		
Boiler Explosions	—	1	—	—	—	—	—	1		
On Railways, Sidings, or Tram- ways	5	11	—	5	2	—	13	36		
Electricity	—	—	—	—	—	—	—	—		
Miscellaneous	3	69	8	77	3	2	84	246		
Total on Surface	9	90	8	92	5	2	106	312		
Gross Total in 1920	39	476	23	171	12	9	458	1,188		
Total in preceding Year	32	450	20	131	15	8	451	1,107		
								116		

* Includes (a) accidents causing fracture of head or limb, or dislocation of limb, or any other serious personal injury; (b) accidents caused by explosion of gas, or any explosive, or by electricity, or by overwinding, and causing any personal injury whatever.

PERSONS INJURED.

QUARRIES ACT.

TABLE No. 14.—Number of Persons Injured both by NON-FATAL ACCIDENTS and by ACCIDENTS which proved FATAL to others in and about the QUARRIES (more than 20 ft. deep) of GREAT BRITAIN and IRELAND, together with the ISLE OF MAN, during the Year 1920.

Place or Cause of Accident.	Persons Injured by Non-Fatal Accidents disabling for more than 7 Days.						Total Persons Injured by Acci- dents Reported to Inspectors.*			
	Inspection Division.									
	1	2	3	4	5	6				
	Scot- land.	North- ern.	York and North Mid- land.	Lancashire, North Wales and Ireland.	Lanca- shire and N. Wales.	South Wales.	Mid- land and South- ern.			
Falls of Ground	3	32	69	45	7	22	103	281	127	
By Explosives	2	16	16	10	2	3	10	59	73	
During Descent or Ascent.	Falling from Paths, Steps or Ladders When descending or ascending by ma- chinery Miscellaneous	—	7	2	2	—	2	18	31	1
	—	—	—	—	—	—	—	1	1	—
	—	—	—	—	—	—	6	103	136	1
	—	27	—	—	—	—	—	—	—	—
	—	34	2	2	—	8	122	168	2	—
Miscellaneous.	Ropes or Chains breaking Machinery	—	—	—	—	—	—	3	3	2
	—	—	—	—	—	—	—	—	—	—
	1	—	4	1	—	4	10	20	12	—
	Boiler Explosions ..	—	—	—	—	—	—	—	—	—
	On inclined and Engine Planes	—	2	—	8	—	—	6	16	7
	On Railways, Sidings, or Tramways	3	30	42	30	1	9	132	247	25
	Falling from Ledges..	1	13	11	4	2	5	6	42	21
	Electricity	—	—	—	—	—	—	—	—	—
	Sundries	51	235	255	412	56	90	524	1,623	300
	—	56	280	312	455	59	108	681	1,951	367
	Total inside Quarries ..	61	362	399	512	68	141	916	2,459	569
Outside the Quarries.	Machinery	2	7	11	10	2	3	32	67	15
	Boiler Explosions	1	—	1	—	—	—	—	2	1
	On Inclined and Engine Planes	—	1	—	2	—	1	6	10	3
	On Railways, Sidings, or Tramways	6	20	57	42	1	10	108	244	14
	Electricity	—	—	—	—	—	—	—	—	—
	Miscellaneous	33	21	156	220	17	33	309	789	98
	—	42	49	225	274	20	47	455	1,112	131
	Gross Total in 1920	103	411	624	786	88	188	1,371	3,571	700
	Total in preceding Year	135	347	447	555	77	121	1,014	2,696	469

Inside the Quarries (i.e., inside the actual Pits, Holes, or Excavations.)

Outside the Quarries.

* Includes (a) accidents causing fracture of head or limb, or dislocation of limb, or any other serious personal injury; (b) accidents caused by any explosive, or by electricity, or by overwinding, and causing any personal injury whatever.

ACCIDENT DEATH-RATES.

MINES AND QUARRIES.

TABLE NO. 15.—In and about Mines classed under the COAL MINES ACT.

Place or Cause of Accident.	Inspection Division.						Average.	
	1	2	3	4	5	6	1920.	1919.
	Scot- land.	North- ern.	York and North Mid- land.	Lancas- hire and N. Wales.	Ire- land.	South Wales.		
Underground :—								
By explosions of fire-damp or coal dust.	·11	·01	—	—	—	·04	·01	·03
,, falls of ground .. .	·61	·46	·51	·62	—	·61	·54	·55
Shaft accidents .. .	·07	·03	·01	·09	—	·03	·05	·04
Miscellaneous .. .	·39	·28	·34	·36	—	·46	·31	·36
From all causes underground	1·17	·79	·86	1·07	—	1·13	·91	·97
From all causes above ground	·85	·45	·41	·39	—	·68	·53	·54
Under and above ground ..	1·10	·72	·76	·93	—	1·06	·82	·88
From all accidents per 1,000,000 tons of mineral raised.	4·81	3·86	3·54	5·81	—	6·19	4·40	4·60
Per 1,000 persons employed.								4·67

TABLE NO. 16.—In and about Mines classed under the METALLIFEROUS MINES REGULATION ACTS.

Per 1,000 persons employed.	Underground :—							
	By explosions of fire-damp ..	—	—	—	—	—	—	—
	,, falls of ground .. .	—	1·03	2·07	1·69	—	—	1·61
	Shaft accidents .. .	—	·17	—	—	—	·32	·16
	Miscellaneous .. .	—	—	—	1·13	—	1·93	·57
	From all causes underground	—	1·20	2·07	2·82	—	—	3·85
	From all causes above ground	2·13	·43	—	—	—	—	·22
	Under and above ground ..	1·02	·98	·92	1·30	—	1·94	1·22
	Per 1,000 persons employed.							3·00

TABLE NO. 17.—In and about QUARRIES.

Per 1,000 persons employed.	Inside the quarries :—							
	By falls of ground .. .	·55	·40	·84	·46	·59	·44	·32
	,, blasting .. .	·82	·60	—	·15	—	·44	—
	During descent and ascent ..	—	—	—	—	—	—	—
	Miscellaneous .. .	·55	·20	·33	·77	—	1·32	·22
	From all causes inside ..	1·91	1·20	1·17	1·39	·59	2·20	·54
	From all causes outside ..	·56	—	·93	—	—	2·27	·21
	Inside and outside ..	1·46	·93	1·07	·75	·43	2·22	·80
	Per 1,000 persons employed.							·81

COMPARATIVE TABLES.

PERSONS EMPLOYED.

TABLE No. 18.—**Persons employed** in and about the MINES classed under the COAL AND METALLIFEROUS MINES ACTS, from 1873 to 1920.

Decennial Period or Year.	Coal Mines Act.			Metalliferous Mines Act.			Total under both Acts.			
	Under ground.	Above ground.		Total.	Under ground.	Above ground.				
		Males.	Females.			Males.	Females.			
Averages	1873-1882 ..	403,281	94,687	5,460	503,428	33,256	18,952	3,180	55,388	558,816
	1883-1892 ..	461,024	106,268	4,427	571,719	25,408	15,548	1,525	42,481	614,200
	1893-1902 ..	588,446	139,166	4,779	732,391	19,778	13,267	624	33,669	766,060
	1903-1912 ..	772,234	179,724	5,890	957,848	17,400	11,831	212	29,443	987,291
1913	909,834	211,483	6,573	1,127,890	16,525	10,712	175	27,412	1,155,302	
1914	915,381	211,789	6,576	1,133,746	14,426	9,135	148	23,709	1,157,455	
1915	754,673	191,448	7,521	953,642	11,869	7,822	140	19,831	973,473	
1916	792,911	195,430	9,722	998,063	11,858	7,372	225	19,455	1,017,518	
1917	811,510	198,783	11,047	1,021,340	12,475	7,774	250	20,500	1,041,840	
1918	794,843	202,625	11,399	1,008,867	12,243	8,216	362	20,821	1,029,688	
1919	945,806	236,131	9,376	1,191,313	12,327	9,063	271	21,661	1,212,974	
1920	990,359	249,547	8,318	1,248,224	12,291	8,818	214	21,323	1,269,547	

OUTPUT OF MINERALS.

TABLE No. 19.—**Output of Minerals** from MINES under the COAL and METALLIFEROUS MINES ACTS, from 1873 to 1920.

Decennial Period or Year.	Coal.	Fireclay.	Ironstone.*	Oil Shale.	Other Minerals.	Total under the Coal Mines Act.	Total under the Metalliferous Mines Act.	
						Tons.	Tons.	
Averages	1873-1882	138,086,800	1,875,287	11,514,447	712,928	40,209†	152,221,629	4,278,577
	1883-1892	169,921,705	2,079,818	8,634,571	1,835,174	175,239	182,646,507	4,110,068
	1893-1902	203,314,691	2,628,168	7,366,505	2,192,597	288,874	215,790,835	3,637,745
	1903-1912	253,967,596	2,758,318	7,787,910	2,735,153	481,157	267,730,134	3,275,844
1913	287,411,869	2,585,763	7,709,624	3,280,143	623,954	301,611,353	3,236,490	
1914	265,643,030	2,374,068	7,241,481	3,268,666	558,228	279,085,473	2,973,526	
1915	253,179,446	1,839,746	6,080,218	2,998,652	399,201	264,497,263	2,815,816½	
1916	256,348,351	1,712,281	5,648,602	2,994,386	359,330	267,062,950	2,658,779	
1917	248,473,119	1,888,592	6,280,194	3,113,003	365,151	260,120,059	2,533,177½	
1918	227,714,579	1,891,394	5,921,162	3,076,850	313,518	238,917,503	2,442,209½	
1919	229,743,128	1,849,690	4,949,944	2,759,165	299,012	239,600,939	2,104,252	
1920	229,503,435	1,966,040	4,985,410	2,829,515	352,279	239,636,679	2,334,398	

* For the total quantity of ironstone and iron ore raised see "Iron Ore" page 9.

† Average for eight years only.

OUTPUT OF MINERALS.

TABLE No. 20.—Output of the principal MINERALS from all MINES, from QUARRIES,* and from certain other WORKINGS, from 1873 to 1920.

Decennial Period or Year.	Iron Ore.	Alum Shale.	Arenaceous Pyrites.	Barium (Com-pounds).	Bauxite.	Chalk.	Clays and Shale.	Coal.	Copper Ore.	Copper Pre-cipitate.	Gold Ore (Auri-ferous Quartz).	Gravel and Sand.	Gypsum.	Igneous Rocks.
{ 1873-1882 ..	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
	5,566	6,112	4,197	19,303	24,408	9,193	—	2,807,285	138,086,800	64,733 ⁴	408	445	2,213	
	3,914	4,093	3,912	9,312	9,312	4,051,926 ³	—	2,811,754	169,921,765	20,267 ¹	342	267	126,316	
	3,912	4,093	3,912	9,312	9,312	4,547,125	66,720	11,349,108	203,322,846	7,305 ⁴	287 ¹	1,386	10,252	
	3,912	4,093	3,912	9,312	9,312	4,547,125	66,720	11,349,108	203,322,846	5,028 ¹	233 ¹	40,211	11,388	
	3,912	4,093	3,912	9,312	9,312	4,547,125	66,720	11,349,108	203,322,846	5,028 ¹	233 ¹	40,211	11,388	
{ 1883-1892 ..	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112
	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112
	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112
	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112
	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112
{ 1893-1902 ..	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112
	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112
	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112
	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112
	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112
{ 1903-1912 ..	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112
	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112
	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112
	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112
	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112
{ 1913 ..	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112
	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112
	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112
	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112
	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112
{ 1914 ..	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112
	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112
	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112
	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112
	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112
{ 1915 ..	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112
	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112
	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112
	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112
	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112
{ 1916 ..	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112
	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112
	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112
	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112
	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112
{ 1917 ..	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112
	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112
	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112
	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112
	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112
{ 1918 ..	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112
	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112
	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112
	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112
	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112
{ 1919 ..	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112
	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112
	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112
	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112
	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112
{ 1920 ..	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112
	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112
	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112
	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112
	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112

* Complete returns from all quarries under the Quarries Act, 1884, are only available for 1885 and subsequent years. Only the columns marked * are appreciably affected by this cause.

† Revised figures.

‡ Some gold was returned in these years.

§ Average for 8 years only.

DEATHS FROM ACCIDENTS.

TABLE No. 21.—Number of Deaths from different causes of ACCIDENTS in and about MINES classed under the COAL MINES ACTS, from 1873 to 1920.

Decennial period or year.	Number of deaths from accidents.						
	From different causes under ground.					Total on surface.	
	Explosions of fire-damp or coal dust.	Falls of ground.	Shaft accidents.	Miscellaneous.	Total.		
Averages							
1873-1882 ..	263	453	130	191	1,037	92	1,129
1883-1892 ..	147	460	88	231	926	106	1,032
1893-1902 ..	104	448	79	264	895	120	1,015
1903-1912 ..	133	573	81	343	1,130	145	1,275
1913	462	620	98	400	1,580	173	1,753
1914	26	596	66	398	1,086	133	1,219
1915	41	673	61	392	1,167	130	1,297
1916	22	706	44	391	1,163	150	1,313
1917	20	724	62	408	1,214	156	1,370
1918	160	685	47	385	1,277	124	1,401
1919	27	589	45	342	1,003	115	1,118
1920	26	544	40	355	965	138	1,103

TABLE No. 22.—Number of Deaths from different causes of ACCIDENTS in and about MINES under the METALLIFEROUS MINES REGULATION ACTS, from 1873 to 1920.

Decennial period or year.	Number of deaths from accidents.						
	From different causes under ground.					Total on surface.	
	Explosions of fire-damp.	Falls of ground.	Shaft accidents.	Miscellaneous.	Total.		
Averages							
1873-1882 ..	—	31	24	23	78	13	91
1883-1892 ..	*	24	13	17	54	7	61
1893-1902 ..	—	16	9	14	39	5	44
1903-1912 ..	—	16	7	9	32	6	38
1913	—	12	6	10	28	4	32
1914	—	8	3	7	18	6	24
1915	—	8	2	7	17	4	21
1916	—	13	1	5	19	4	23
1917	—	9	4	9	22	3	25
1918	—	9	2	6	17	2	19
1919	—	18	33	9	60	5	65
1920	—	15	2	8	25	2	27

* There were five persons killed in 1887 and one in 1888 by explosions of fire-damp.

ACCIDENT DEATH-RATES.

TABLE No. 23.—**Ratio of Mortality** from different causes of ACCIDENTS in and about MINES classed under the COAL MINES ACTS, per 1,000 PERSONS EMPLOYED, and per 1,000,000 tons of MINERAL RAISED, from 1873 to 1920.

Decennial period or year.	Death-rate from accidents per 1,000 persons.						Death-rate from accidents under and above ground per 1,000,000 tons of mineral raised.		
	Employed underground.				Employed above ground, from all causes above ground.	Employed under and above ground.			
	By explosions of fire-damp or coal dust.	By falls of ground.	Shaft accidents.	Miscellaneous.					
Averages.	1873-1882 ..	.65	1.12	.32	.47	2.57	.92	2.24	7.42
	1883-1892 ..	.32	1.00	.19	.50	2.01	.96	1.81	5.65
	1893-1902 ..	.18	.76	.13	.45	1.52	.83	1.39	4.70
	1903-1912 ..	.17	.74	.11	.44	1.46	.78	1.33	4.76
1913 .. ..	.51	.68	.11	.44	1.74	.79	1.55	5.81
1914 .. ..	.03	.65	.07	.43	1.19	.61	1.08	4.37
1915 .. ..	.05	.89	.08	.52	1.55	.65	1.36	4.90
1916 .. ..	.03	.89	.06	.49	1.47	.73	1.32	4.92
1917 .. ..	.02	.89	.08	.50	1.50	.74	1.34	5.27
1918 .. ..	.20	.86	.06	.48	1.61	.58	1.39	5.86
1919 .. ..	.03	.62	.05	.36	1.06	.47	.94	4.67
1920 .. ..	.03	.55	.04	.36	.97	.54	.88	4.60

TABLE No. 24.—**Ratio of Mortality** from different causes of ACCIDENTS in and about MINES classed under the METALLIFEROUS MINES REGULATION ACTS, per 1,000 PERSONS EMPLOYED, from 1873 to 1920.

Decennial period or year.	Death-rate from accidents per 1,000 persons.						Employed under and above ground.	
	Employed under ground.				Employed above ground, from all causes above ground.			
	By explosions of fire-damp.	By falls of ground.	Shaft accidents.	Miscellaneous.				
Averages.	1873-1882 ..	—	.94	.72	.68	2.35	.58	1.62
	1883-1892 ..	.02	.94	.52	.67	2.15	.39	1.44
	1893-1902 ..	—	.83	.44	.69	1.96	.38	1.31
	1903-1912 ..	—	.93	.41	.53	1.87	.47	1.30
1913	—	.73	.36	.61	1.69	.37	1.16	
1914	—	.55	.21	.49	1.25	.65	1.01	
1915	—	.67	.17	.59	1.43	.50	1.06	
1916	—	1.10	.08	.42	1.60	.53	1.18	
1917	—	.72	.32	.72	1.76	.37	1.22	
1918	—	.74	.16	.49	1.39	.23	.91	
1919	—	1.46	2.68	.73	4.87	.54	3.00	
1920	—	1.22	.16	.57	1.95	.22	1.22	

TABLE NO. 25.—**Number of Persons Employed** and **Output of Minerals** at QUARRIES under the QUARRIES ACT, 1894, from 1895 to 1920.

Decennial period or year.	Persons employed.			Output.
	Inside.	Outside.	Total.	
Averages { 1895-1904 ..	60,399	45,023	105,422	40,483,641
1905-1914 ..	54,063	31,134	85,197	45,656,426
1915	40,029	22,098	62,127	37,711,612
1916	30,767	17,429	48,196	32,054,093
1917	28,447	15,184	43,631	30,165,836
1918	27,917	15,298	43,215	30,036,599
1919	36,879	20,197	57,076	31,136,124
1920	43,544	24,206	67,750	39,821,882

TABLE NO. 26.—**Number of Deaths** from different causes of ACCIDENTS at QUARRIES under the QUARRIES ACT, 1894, from 1895 to 1920.

Decennial period or year.	Inside the quarries.					Outside the quarries.	Gross total.
	Falls of ground.	By blasting.	During descent or ascent.	Miscellaneous.	Total inside.		
Averages { 1895-1904 ..	44	11	3	37	95	20	115
1905-1914 ..	36	10	1	28	75	15	90
1915	23	16	1	22	62	12	74
1916	22	7	—	19	48	10	58
1917	13	11	2	19	45	11	56
1918	23	9	—	25	57	10	67
1919	14	4	—	16	34	12	46
1920	20	8	—	17	45	9	54

TABLE NO. 27.—**Death-rates** from different causes of ACCIDENTS per 1,000 PERSONS EMPLOYED at QUARRIES under the QUARRIES ACT, 1894, from 1895 to 1920.

Decennial period or year.	Employed inside the quarries.					Employed outside the quarries.	Gross total.
	Falls of ground.	By blasting.	During descent or ascent.	Miscellaneous.	Total inside.		
Averages { 1895-1904 ..	.73	.19	.04	.61	1.57	.45	1.09
1905-1914 ..	.66	.19	.01	.53	1.39	.47	1.06
1915 .. .. ..	.57	.40	.02	.55	1.55	.54	1.19
1916 .. .. ..	.72	.23	—	.62	1.56	.57	1.20
1917 .. .. ..	.46	.39	.07	.67	1.58	.72	1.28
1918 .. .. ..	.82	.32	—	.90	2.04	.65	1.55
1919 .. .. ..	.38	.11	—	.43	.92	.59	.81
1920 .. .. ..	.46	.18	—	.39	1.03	.37	.80

TABLE OF INSPECTION DIVISIONS (Corrected to April, 1921).

No. of Division.	Names and Areas of Divisions.	Inspectors in charge, Telegraphic Address and Telephone Number.	Senior Inspectors.	Junior Inspectors.	Sub-Inspectors of Mines.	Sub-Inspectors of Quarries.	Inspectors of Horses in Mines.
1.	Scotland Division , comprising the whole of Scotland.	John Masterton, M.B.E., 59, Cockburn Street, Edinburgh. [Mines Inspector, Edinburgh.] [Central 7058.]	H. M. Hudspeth, D.S.O., M.C., 9, North Bank Terrace, Wilton Street, Glasgow. E. H. Frazer, 9, Fountainhall Road, Edinburgh.	H. J. Humphrys, D.S.O., M.C., 4, Dahlbir Road, Ayr. J. A. S. Ritson, D.S.O., M.C., 16, Learmonth Place, Edinburgh. P. McIlennan, "Verdala," Douglas Street, Hamilton. T. Green, 1, Bellevue Crescent, Edinburgh. W. Loudon, 100, Dewar Street, Dunfermline. (1 vacancy.)	G. Rankin, 5, South Oxford Street, Edinburgh. A. McCall, 33, Watson Street, Motherwell. T. H. Hamilton, The Cottages, Greengairs, by Airdrie.	L. R. Sowerby, 28, Bellwood Street, Langside, Glasgow.	A. McArthur, 8, Hyndland Avenue, Glasgow, W.
2.	Northern Division , comprising Northumberland, Durham, Cumberland, Westmorland, the North Riding of Yorkshire, the detached part of North Lancashire, and the Isle of Man.	J. R. R. Wilson, 4, Park Terrace, Newcastle-on-Tyne. T. Ashley, 1, Field House, Terrace, Durham. [Mines Inspector, Newcastle-on-Tyne.] [1882 Central.]	W. Leck, M.B.E., Cleator Moor, Cumbria. H. T. Foster, 184, Osborne Road, Newcastle-on-Tyne. G. Cook, Oakbank, Whitehaven. Arthur Stoker, 13, Woodbine Avenue, Gosforth, Newcastle-on-Tyne. A. M. Bryan, 4, Manor House Road, Jesmond, Newcastle-on-Tyne. W. Wainwright, West View, Fieldhouse Lane, Durham City.	Douglas Hay, M.C., 38, Old Elvet, Durham. H. T. Foster, 184, Osborne Road, Newcastle-on-Tyne. G. Goodin, 47, Montrose Street, Saltburn-by-the-Sea. J. S. Jobling, 6, Wood View, Shincle Village, Durham. Wm. Cummings, 2, Dene View, Burnopfield.	W. Brown, 82, Sidney Grove, Newcastle-on-Tyne. W. Goodin, 47, Montrose Street, Saltburn-by-the-Sea. J. S. Jobling, 6, Wood View, Shincle Village, Durham. Wm. Cummings, 2, Dene View, Burnopfield.	R. W. Ball, 28, Honister Avenue, High West, Jesmond, Newcastle-on-Tyne.	R. L. Layfield, 4, Leazes Place, Durham. E. A. Stubley, 171, Ellesmere Road, Newcastle-on-Tyne.
3.	York and North Midland Division , comprising East and West Ridings of Yorkshire and the Counties of Lincoln, Nottingham, and Derby (north of the River Trent).	F. H. Wynter, 13, Town Moor Avenue, Doncaster. [Mines Inspector, Doncaster.] [Doncaster 542.]	W. J. Charlton, 25, Cardigan Road, Leeds. W. E. T. Hartley, Shrewsbury Grange, Winchester Street, Nottingham.	A. L. Flint, 181, Hyde Park Road, Leeds. J. Hall, 8, Egedale Road, Sheffield. H. S. S. Scott, 13, Windsor Road, Doncaster.	T. Gathrope, 41, Junction Road, Sheffield. D. Coatesworth, Burwyn Villa, Cross Flatts Grove, Beeston, Leeds. J. W. Head, Old Mill Street, Barnsley.	G. Holden, 1, St. George's Terrace, Brook Hill, Sheffield. R. Baxter, 54 Wilson Road, Sheffield.	

4.	Lancashire, North Wales and Ireland Division , comprising part of Lancashire (namely, so much of the County as is not included in No. 2 Division), part of Cheshire (namely, so much of the County as is not included in No. 6 Division), Anglesey, Carnarvon, Denbigh, Flint, Merioneth, Montgomery, and Ireland.	A. D. Nicholson, Astley, Manchester. [Inspecting, Astley, Lancs.] [Atherton 76.]	D. H. F. Mathews, Hoole, Chester. G. J. Williams, Coed Menai, Bangor. A. H. Steele, Avondale Hotel, Prone-nade, Southport.	(1 vacancy.)	G. B. Harrison, "Shamrock," Worsley Road, Swinton, Manchester. O. R. Jones, Glen Seaton, Carnarvon. T. D. Davies, "Pagnall," Manchester Road, Chequerbent.	J. Duncan, 133, Willows Lane, Accrington. W. Roberts, 37, Birley Street, Newton-le-Wil-lows. J. T. Shaw, Marsh Brook Farm, Westhoughton, Bolton.	Rhys Williams, 30, Friars Avenue, Bangoor. O. Jones, 91, Ashworth Street, Rochdale.	D. Morris, 42, Whitley Green, Bryn, near Wigan.	
5.	South Wales Division , comprising Brecon, Cardigan, Carmarthen, Glamorgan, Pembroke, Radnor, and Monmouth.	J. Dyer Lewis, 21, Stawell Road, Penarth. [Mines Inspector, Penarth.]	T. Greenland Davies, 22, Oaksfield Road, Newport, Mon. [Mines Inspector, Penarth.]	P. T. Jenkins, "Bryncood," Woodville Road, Newport, Mon. [M. Carey, Rhubina, Whichurch, Cardiff. E. S. Rees, 19, Kensington Crescent, Swansea.]	T. Waldin, 33, Hillside, Mount Pleasant, Neath. H. G. Madley, "Rhiew-glyn," Ogmore Vale, Glam. W. J. Owen, "Ochiltree's" Cowbridge Road, Bridgend. B. F. Keridge, 13, Godfrey Road, Newport, Mon.	W. J. Stephens, 80, Brunswick Street, Canton, Cardiff.	T. L. Evans, 19, Cos-meston Street, Cathays, Cardiff. H. H. Phillips, 25, Brynmor Crescent, Swansea.	T. L. Evans, 19, Cos-meston Street, Cathays, Cardiff. H. H. Phillips, 25, Brynmor Crescent, Swansea.	
6.	Midland and Southern Division , comprising Bedford, Berks, Buckingham, Cambridge, part of Cheshire*, Cornwall, Derby (South of the River Trent), Devon, Dorset, Essex, Gloucester, Hants, Hereford, Hereford, Huntingdon, Kent, Leicester, Middlesex, Norfolk, Northampton, Oxford, Rutland, Salop, Somerset, Stafford, Suffolk, Surrey, Sussex, Warwick, Wilts, and Worcester.	H. A. Abbott, Wilmett House, Erdington, Birmingham. [Mines Inspector, Birmingham.] [114 Erdington.]	J. R. Felton, 298, Pershore Road, Birmingham. T. Boyell, "Guinan," Rowley Park, Stafford.	C. D. Mottram, 55, Francis Road, Edgbaston, Birmingham. P. S. Lea, 296, Pershore Road, Edgbaston, Birmingham. E. Rowley, 526, Kensington Hill, Brislington, Bristol. G. N. Scott, 22, Richmond Road, Handsworth, Richard King, Ranleigh Road, St. Austell.	T. H. Bull, "Verona," Keele Road, Newcastle, Staffs. H. Morgan, Newstead, Catholic Lane, Sedgley, S. Thomas, 93, Bracebridge Street, Nuneaton.	T. R. Rees, 185, Holly Road, Handsworth, Birmingham.	J. Evans, 226, Charles Road, Smallheath, Birmingham.	(1 vacancy.)	(1 vacancy.)

* Including the Parishes of Church Lawton, Odd Rode, and Wildboarclough, and the portion of Cheshire situated on the east side of North Staffordshire Railway from Rushton Station. Cop Station to North Rode Station and south of the North Rode Station to Rushton Station.

